#### DATA EVALUATION SHEET

1. CHEMICAL: Bravo 500

2. FORMULATION: Chlorothalonil

3. CITATION

Fink, Robert, 1979. Chlorothalonil Eight-day Dietary (LC<sub>50</sub>) Study in Bobwhite Quail. An unpublished report prepared by Wildlife International Ltd. for Diamond Shamrock Chemical Company. (Accession Number 099247).

4. REVIEWED BY: Daniel Rieder
Wildlife Biologist
EEB/HED

5. DATE REVIEWED: March 5, 1980

6. TEST TYPE: Eight-day Dietary Acute Toxicity

A. Test Species: Bobwhite Quail

B. Test Material: Chlorothalonil (96%)

7. REPORTED RESULTS

There were no mortalities at any dosage level. There was a slight reduction in body weight at the 10,000 ppm dose level, the highest concentration used.

#### 8. REVIEWERS CONCLUSION

A. Validation Category: Core

B. Discussion

The acute eight-day dietary  $\rm IC_{50}$  of technical chlorothalonil was estimated to be greater than 10,000 ppm. Therefore it is considered practically non-toxic to bobwhite quail. This study was scientifically conducted and meets the requirements in the EPA proposed guidelines.

## METHODS/RESULTS

### A. Test Procedure

Protocol generally followed EPA proposed guidelines of July 10, 1978. 14-day old bobwhite chicks were used as test organisms. Fifty birds (five groups of ten birds each) were assigned as controls. Two sets of ten birds each were used at each concentration level. Five concentrations were used, they were: 1000, 1780, 3160, 5620, and 10,000 ppm. A separate group with the same number of birds were subjected to the laboratory standard (dieldrin) simultaneously. Some minor discrepancies include failure to report:

- 1. test dates;
- body weights of birds before and after testing;
- housing conditions, such as humidity and photoperiod;
   and
- 4. total food consumption

## B. Statistical Analysis

No IC was calculated as no deaths occurred at any concentration level.

## C. Discussion/Results

No deaths occurred at the highest  $(10,000~\rm{ppm})$  concentration level, so it was estimated that the  $IC_{50}$  for technical chlorothalonil would be greater than  $10,000~\rm{ppm}$ . The necropsy at the end of the test showed a slight pale mottling of the liver in 2 of the birds at the  $10,000~\rm{ppm}$  concentration level.

#### REVIEWERS EVALUATION

### A. Test Procedure

The discrepancies mentioned above are not considered significant, and the test procedure is considered acceptable.

## B. Statistical Analysis

No deaths occurred, so no IC was calculated. The IC for chlorothalonil in bobwhite chicks in an eight-day dietary acute toxicity test would probably be greater than 10,000 ppm.

## C. Validation

1. Category: Core

# 2. Rationale

The test procedure essentially corresponds to the proposed EPA guidelines. The reporting deficiencies are within acceptable limits.

3. Repairable: N/A